COMPUTER PROGRAM PRODUCT FOR
TRANSFORMING STREAMING VIDEO DATA

ABSTRACT OF THE DISCLOSURE

According to one embodiment, a computer program product for a system

5   including a processor includes a tangible memory including code that directs the processor to determine an output resolution for an output stream of data, code that directs the processor to determine an output frame rate for the output stream of data, code that directs the processor to determine an output color depth for the output stream of data, code that directs the processor to retrieve a first frame of data, a second frame of data, and a third frame of data from an

10   input stream of data, the input stream of data having an input resolution, an input frame rate, and an input color depth, code that directs the processor to subsample the first frame of data, the second frame of data, and the third frame of data to respectively form a first subsampled frame of data, a second subsampled frame of data, and a third subsampled frame of data, when the output resolution is lower than the input resolution are also included, code that

15   directs the processor to remove the second subsampled frame of data, when the output frame rate is lower than the input frame rate, code that directs the processor to reduce color depth for the first subsampled frame of data and the second subsampled frame of data to respectively form a first reduced frame of data and a second reduced frame of data, when the output color depth is smaller than the input color depth, and code that directs the processor to

20   convert the first reduced frame of data and the second reduced frame of data into the output stream of data.

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